

DETAILED ACTION

Terminal Disclaimer

1. The terminal disclaimer filed on August 10, 2012 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of Pending Application Nos. 12/822,878; 13/482,593; 10/898,966; 12/834,436 has been reviewed and is accepted. The terminal disclaimer has been recorded.

Continued Examination Under 37 CFR 1.114

2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on February 16, 2012 has been entered.

Response to Arguments

3. Applicant's arguments with respect to claims 40, 42 and 46-51 have been considered but are moot because the arguments do not apply to any of the references being used in the current rejection.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the

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applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

5. Claims 40, 46-47 and 49 are rejected under 35 U.S.C. 102(e) as being anticipate by Ozkan et al. (US Patent No. 6,111,611).

In considering claim 40, Ozkan et al discloses all claimed subject matter, note 1) the claimed converting the a received radio frequency (RF) digital broadcast signal into a baseband signal is met by the input processor 13 (Fig. 1, col. 3, line 11 to col. 4, line 48), 2) the claimed decoding the converted baseband signal to reconstruct a digital broadcast transport stream which includes audio data, video data and program information is met by the demodulator 15 and the decoder 17 (Fig. 1, col. 3, line 11 to col. 5, line 34), 3) the claimed extracting the audio data, the video data and the program information from the reconstructed digital broadcast transport stream and storing the extracted program information in a storage is met by the data transport decoder and demultiplexer 22 (Fig. 1, col. 3, line 11 to col. 5, line 34), 4) the claimed processing the extracted audio data to be output as sound is met by the audio processor 35 (Fig. 1, col. 3, line 11 to col. 5, line 34), 5) the claimed processing the extracted video data to be output on a screen is met by the MPEP video decoder 25 (Fig. 1, col. 3, line 11 to col. 5, line 34), 6) the claimed accessing the storage to generate a channel list based on the stored program information is met by the program guide and system information processor 60 (Figs. 1-4, col. 4, line 24 to col. 8, line 30), 7) the claimed wherein the channel list comprises is made up of one or more separately identifiable channel groupings, each having one or more two-part channel numbers, where each of the one

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or more two-part channel numbers includes at least one a main channel number as a first part and the at least one main channel number has at least one corresponding and a sub-channel number as a second part, and where each two-part channel number of a respectively identified channel grouping has a same main channel number and different sub-channel numbers is met by the program specific information which includes the program guide, individual program channels are advantageously allocated both first identification number (a major number as indicated by bundle number 300 in Fig. 3) and second identification number (minor number as indicated by channel number in bundle 305 in Fig. 3) identification number (Figs. 1 and 3, col. 5, line 18 to col. 8, line 44), and 8) the claimed enabling a user to navigate the channel list to search a two part channel number wherein information included in the channel list is derived from program associated information from a Program Specific Information (PSI) table, for plural programs included in the transport stream conforming with an MPEG standard, wherein an identifiable program according to the MPEG standard is distinguished from a predetermined corresponding two-part channel number is met by the Electronic Program Guide display and it may comply with Program Specific Information (PSI) requirements specified in section 2.4.4 of the MPEG systems standard... (Figs. 1-4, col. 2, line 49 to col. 4, line 23).

In considering claim 46, the claimed wherein the channel list is configured to be navigable between two-part channel numbers, of one or more two-part channel numbers of a first channel grouping, and between the first channel grouping and a two-part channel number of a second channel grouping in is met by the user can select sub-

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channel SC from within the hierarchical menu system displaying program channel selections in a program guide using remote control unit 70 or by simple sequential number entry via the unit 70 keypad (Figs. 1 and 3, col. 5, line 18 to col. 8, line 44).

In considering claim 47, the claimed wherein the one or more two-part channel numbers of the first channel grouping are collectively displayed in a same direction with a first channel grouping identifier representing the first channel grouping is met by the hierarchical menu system displaying program channel selections in a program guide (Figs. 1 and 3, col. 5, line 18 to col. 8, line 44).

In considering claim 49, the claimed wherein the predetermined corresponding two-part channel number represents the identifiable program based on predetermined identification information unique to the program according to the MPEG standard, and a relationship, according to an ATSC standard, between the two-part channel number and the predetermined identification information unique to the program is met by the Electronic Program Guide display and it may comply with Program Specific Information (PSI) requirements specified in section 2.4.4 of the MPEG systems standard... (Figs. 1-4, col. 2, line 49 to col. 4, line 23).

Claim Rejections – 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

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7. Claims 42, 48 and 50-51 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ozkan et al. (US Patent No. 6,111,611) in view of Kondo et al (US Patent No. 6,763,522 B1).

In considering claim 42, Ozkan et al disclose all the limitations of the instant invention as discussed in claim 40 above, except for providing the claimed wherein the listing sequence can be determined based on proximity between respective channel grouping identifiers to allow a select current two-part channel number, of one or more two-part channel numbers corresponding to a current channel grouping identifier, to be listed along with at least one two-part channel number, of one or more two-part channel numbers corresponding to a proximally related upper close channel grouping identifier, and/or at least one two-part channel number, of one or more two-part channel numbers corresponding to a proximally related lower close channel grouping identifier. Kondo et al teach that Figs. 2A through 2D illustrate a single EPG, it is understood in view of the foregoing discussion, that a plurality of EPGs may be simultaneously displayed on the video display for each of the minor channels of the currently tuned major channel (Figs. 2A through 2D, col. 6, line 7 to col. 7, line 65). Therefore, it would have been obvious to one ordinary skill in the art at the time of the invention to incorporate the EPG display as taught by Kondo et al into Ozkan et al' system in order to provide updated program and system information.

In considering claim 48, Ozkan et al disclose all the limitations of the instant invention as discussed in claim 40 above, except for providing the claimed further comprising: receiving a command to navigate the channel list; and displaying plural

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channel grouping identifiers and/or plural two-part channel numbers in a numeric order. Kondo et al teach that Figs. 2A through 2D illustrate a single EPG, it is understood in view of the foregoing discussion, that a plurality of EPGs may be simultaneously displayed on the video display for each of the minor channels of the currently tuned major channel (Figs. 2A through 2D, col. 6, line 7 to col. 7, line 65). Therefore, it would have been obvious to one ordinary skill in the art at the time of the invention to incorporate the EPG display as taught by Kondo et al into Ozkan et al' system in order to provide updated program and system information.

In considering claim 50, Ozkan et al disclose all the limitations of the instant invention as discussed in claim 40 above, except for providing the claimed wherein the channel list is navigated in a first direction between the one or more two-part channel numbers of the first channel grouping, and navigated in a second direction between the first channel grouping and the second channel grouping. Kondo et al teach that Figs. 2A through 2D illustrate a single EPG, it is understood in view of the foregoing discussion, that a plurality of EPGs may be simultaneously displayed on the video display for each of the minor channels of the currently tuned major channel (Figs. 2A through 2D, col. 6, line 7 to col. 7, line 65). Therefore, it would have been obvious to one ordinary skill in the art at the time of the invention to incorporate the EPG display as taught by Kondo et al into Ozkan et al' system in order to provide updated program and system information.

In considering claim 51, the claimed wherein the first direction is different from the second direction is met by the Electronic Program Guide display (Figs. 2A through 2D, col. 6, line 7 to col. 7, line 65 of Kondo et al).

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8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Trang U. Tran whose telephone number is (571)272-7358. The examiner can normally be reached on 10:00 AM - 6:30 PM, Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jefferey F. Harold can be reached on (571) 272-7519. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

November 7, 2012

/Trang U. Tran/
Primary Examiner, Art Unit 2422

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